UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/004,952	12/05/2001	Yves Schabes	401122.0004	8503
77027 Williams Mulle	7590 05/12/201 e <b>n</b>	EXAMINER		
222 Central Par Suite 1700	k Ave	TO, BAOQUOC N		
Virginia Beach, VA 23462			ART UNIT	PAPER NUMBER
		2162		
			MAIL DATE	DELIVERY MODE
			05/12/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No.   1,0004,952   SCHABES ET AL.				
Examiner   BAOQUOC N. TO   2162			Application No.	Applicant(s)
BAQQUOC N. TO   2162			10/004,952	SCHABES ET AL.
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  E-Indention of time may be avaidable under the provision of 3 CTR 1.136(i). In no event, however, may a reply be limited filled after SIX (6) MONTHS from the mailing date of this communication.  Fill Opprodic may be specified under the provision of 3 CTR 1.136(ii). In no event, however, may a reply be limited filled after SIX (6) MONTHS from the mailing date of this communication.  Fill Opprodic may be specified above, the maximus adaptive partial call supply and vall supple SIX (6) MONTHS from the mailing date of this communication, even if timely filled, may reduce any search patient term deplatment. See 37 CFR 1.704(b).  Status  1)② Responsive to communication(s) filled on 03/25/2010.  2a) ☐ This action is FINAL.  2b)② This action is FINAL.  2b)② This action is final.  3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)② Claim(s) 75-99 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)☐ Claim(s) is/are objected to.  5)☐ Claim(s) is/are objected to.  7)☐ Claim(s) is/are objected to.  8)☐ Claim(s) is/are objected to by the Examiner.  1)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a).  1)☐ All b)☐ S	Office Action Summary		Examiner	Art Unit
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extractions of them may be available under the provisions of 37 CFR 1.136(a). Into wornt, however, may a negly to limity filled  - Extraction of them may be available under the provisions of 37 CFR 1.136(a). Into wornt, however, may a negly to limity filled  - If No pariod for regly is specified above, the maximum attatutory period with pays and will expire X(b) (MORITHS from the mailing date of this communication, expire the mail possibility of the provision of the mailing date of this communication, own if throlly filled, may reduce any examine placets term adjustment. See 37 CFR 1.74(b).  Status  1)			BAOQUOC N. TO	2162
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1) Notice of References Cited (PTO-892) 2) Interview Summary (PTO-413) Paper No(s)/Mail Date	a)[	All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
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### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on

03/25/2010 has been entered.

Claims canceled: 1-74.

Claims amended: None.

New claims: 75-99.

Claims pending: 75-99.

## Claim Objections

2. Claim 92 is objected to because of the following informalities: Claims 92, status

identifier should be new not previously presented. Appropriate correction is required.

# 35 USC § 101

3. The method as recited in claim(s) 1 will be interprets and give a specific meaning

to the recited method which the methods perform by a computer including a processor

and memory having instructions execute by the processor to perform and negating any

embodiment which expressly disclose the methods is an mental or abstract idea or

method will be perform without a computer and any other methods do not fall within the definition of 35 U.S.C 101.

## Response to Arguments

4. Applicant's argument filed on 03/25/2010 has been fully reviewed and new ground of rejection in view of the applicant's argument is provided below.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 75 to 99 are rejected under 35 U.S.C. 103(a) as being unpatentable over Trower, II et al. (Patent No. 6,922,810 B1) in view of (Pub. No. US 2002/0002547 A1).

As to 75, (New) Trower discloses a method of fulfilling an information need comprising:

receiving a query pertaining to the information need, the query comprised of a fully specified term and a partially unspecified term wherein the partially unspecified term is representative of a matching restriction designed to meaningfully restrict the query results (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26);

processing the query against a plurality of information containing documents to determine a query match based on the presence of the fully specified term and the presence of a match to the matching restriction of the partially unspecified term within a document, wherein the order of the fully specified term with respect to the match to the matching restriction of the partially unspecified term need not be in the same order as the query (the rules grammar 220 can include variable in addition to wildcards.

Variables are similar to wildcards in that they can be matched by any user input...) (col. 10, lines 1-7); and

returning a result that includes the matching portion of the document in which a query match was determined (the rules grammar 220 can include variable in addition to wildcards. Variables are similar to wildcards in that they can be matched by any user input...) (col. 10, lines 1-7).

Trower does not explicitly disclose the method as recited is a query for retrieval data; However, SAKO discloses query retrieval using morphological analysis (according

to the above process, for example, if the morphological analysis result sown in FIG. 17 is input, the word "Jurassic World" is extracted as keywords, and the retrieval condition for retrieving the retrieval character sequence "director" and "director of Jurassic World" is prepared, as shown in FIG. 20) (paragraph 0142). This suggests of the concept of search and retrieving of word such as director and Jurassic Work is a noun as a morphological restriction. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify Trower to include concept of search and retrieving of word such as director and Jurassic Work is a noun as a morphological restriction as disclosed SAKO in order to retrieve data as accustomed to user need.

As to claim 76, (New) Trower discloses the method of claim 75, further comprising:

identifying documents that contain the partially unspecified term in an index; identifying contexts within the index in accordance with the query wherein the index includes pre-analyzed contexts of terms appearing within the plurality of information containing documents (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26);

converting the query into a finite state automaton (FSA) (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26); and

matching the finite state automaton (FSA) against the identified contexts(for example what is %symbol%+ trading at ...) (col. 10, lines 20-26).

As to claim 77, (New) Trower discloses the method of claim 76, wherein the finite state automaton (FSA) is a finite state transducer (FST) (computer) (col. 2, lines 49-52).

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As to claim 78, (New) Trower discloses the method of claim 76, wherein the finite state automaton (FSA) allows for the appearance of fully specified and at least partially unspecified terms in any order in a potential matching context (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26).

As to claim 79, (New) Trower discloses the method of claim 76, wherein the finite state automaton (FSA) allows for one or more intervening words between the fully specified and at least partially unspecified terms in a potential matching context (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26).

As to claim 80, (New) Trower discloses the method of claim 76, wherein the contexts are stored as finite state automatons (FSAs) (computer) (col. 2, lines 49-52).

As to clam 81, (New) Trower discloses the method of claim 76, wherein the documents are accessible over the Internet (internet) (col. 4, lines 35-41).

As to claim 82, (New) Trower discloses he method of claim 76, wherein the documents comprise World Wide Web Pages (internet) (col. 4, lines 35-41).

As to claim 83, (New) Trower discloses the method of claim 75 further comprising assigning a score to the query match (score module) (col. 10, lines 55-67).

As to claim 84, (New) Trower discloses the method of claim 83 wherein the score reflects the number of times an instance of the query match is located among the plurality of documents (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26).

As to claim 85, (New) Trower discloses the method of claim 84 further comprising ranking the documents that contain a query match based on a number of times the query match is located within a document (score module) (col. 10, lines 55-67).

As to claim 86, (New) Trower discloses the method of claim 75 wherein the partially unspecified term includes a syntactic or a morphological restriction (grammar rules) (col. 16-40).

As to claim 87, (New) Trower discloses the method of claim 76 wherein the index comprises locations of terms within documents (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26).

As to claim 88, (New) Trower discloses the method of claim 87 further comprising: determining the location of a term in the query within a document using the

index; and locating a query match for the query based on the location of the term within the document (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26).

As to claim 89, (New) Trower discloses the method of claim 88 further comprising ranking a plurality of the located matches or portions thereof (scoring module) (col. 10, lines 55-67).

As to claim 90, (New) Trower discloses the method of claim 89 wherein the ranking is based on one or more features selected from the list consisting of: the location of a match within a document, a weight assigned to a document that contains a match, the age of a document that contains a match, the source of a document that contains a match, and a format feature of a match within a document (scoring module) (col. 5, lines 67).

As to claim 91, (New) Trower discloses the method of claim 75 wherein the query includes a delimiter indicating a first portion of the query for which a relative order is preserved for one or more terms included in the first portion, the relative order being in accordance with a physical position of each term in the first portion with respect to any other terms in the first portion (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26).

As to claim 92, (Previously Presented) Trower discloses the method of claim 75 that wherein the matching restriction includes a morphological criteria (grammar rules) (col. 10, lines 1-7).

As to claim 93, (New) Trower discloses the method of claim 92 that wherein the morphological criteria includes one of a noun, verbal noun, adjective, conjunction, pronoun, adverb, verb, transitive verb, intransitive verb, verb in past tense, verb in present tense, verb in future intense, present participle of a verb, past participle of a verb, and gerund (grammar rules) (col. 10, lines 1-7).

As to claim 94, (New) Trower discloses the method of claim 75 that wherein the matching restriction includes a syntactical criteria (grammar rules) (col. 10, lines 1-7).

As to claim 95, (New) Trower discloses the method of claim 94 that wherein the syntactical criteria includes one of a noun phrase, verb phrase, prepositional phrase, adverbial phrase, and adjectival phrase (grammar rules) (col. 10, lines 1-7).

As to claim 96, (New) Trower discloses the method of claim 75 that wherein the matching restriction includes a definable category (grammar rules) (col. 10, lines 1-7).

As to claim 97, (New) Trower the method of claim 75 wherein the matching restriction includes a criteria defined in accordance with a determination by a computer

program (instructions program stored in (Memory, ROM and RAM) (col. 3, lines 48-50 and col. 3, lines 65-67).

98. (New) Trower discloses a computer readable medium (Memory, ROM and RAM) (col. 3, lines 48-50 and col. 3, lines 65-67) storing a computer program product for fulfilling an information need, the computer readable medium comprising:

computer program code for receiving a query pertaining to the information need, the query comprised of a fully specified term and a partially unspecified term wherein the partially unspecified term is representative of a matching restriction designed to meaningfully restrict the query results (col. 10, lines 1-7) (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26);

computer program code for processing the query against a plurality of information containing documents to determine a query match based on the presence of the fully specified term and the presence of a match to the matching restriction of the partially unspecified term within a document, wherein the order of the fully specified term with respect to the match to the matching restriction of the partially unspecified term need not be in the same order as the query (the rules grammar 220 can include variable in addition to wildcards. Variables are similar to wildcards in that they can be matched by any user input...); and

computer program code for returning a result that includes the matching portion of the document in which a query match was determined (the rules grammar 220 can

include variable in addition to wildcards. Variable are similar to wildcards in that they can be matched by any use input...) (col. 10, lines 1-7).

Trower does not explicitly disclose the method as recited is a query for retrieval data; However, SAKO discloses query retrieval using morphological analysis (according to the above process, for example, if the morphological analysis result sown in FIG. 17 is input, the word "Jurassic World" is extracted as keywords, and the retrieval condition for retrieving the retrieval character sequence "director" and "director of Jurassic World" is prepared, as shown in FIG. 20) (paragraph 0142). This suggests of the concept of search and retrieving of word such as director and Jurassic Work is a noun as a morphological restriction. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify Trower to include concept of search and retrieving of word such as director and Jurassic Work is a noun as a morphological restriction as disclosed SAKO in order to retrieve data as accustomed to user need.

As to claim 99, (New) Trower discloses the computer readable medium of claim 98, further comprising:

computer program code for identifying documents that contain the partially unspecified term in an index, the index including pre-analyzed contexts of terms appearing within the plurality of documents (col. 10, lines 1-7) (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26); and

computer program code for identifying contexts within the index in accordance with the query, the index including preanalyzed contexts of terms appearing within a

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plurality of documents(col. 10, lines 1-7) (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26);

computer program code for converting the query into a finite state automaton (FSA) (col. 10, lines 1-7) (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26); and

computer program code for matching the finite state automaton (FSA) against the identified contexts(col. 10, lines 1-7) (for example what is %symbol%+ trading at ...) (col. 10, lines 20-26).

#### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is at 571-272-4041, or unofficial fax number for the purpose of discussion (571) 273-4041 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached at 571-272-4107.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

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Art Unit: 2162

(571) 273-8300 [Official Communication]

/Baoquoc N To/

Primary Examiner, Art Unit 2162